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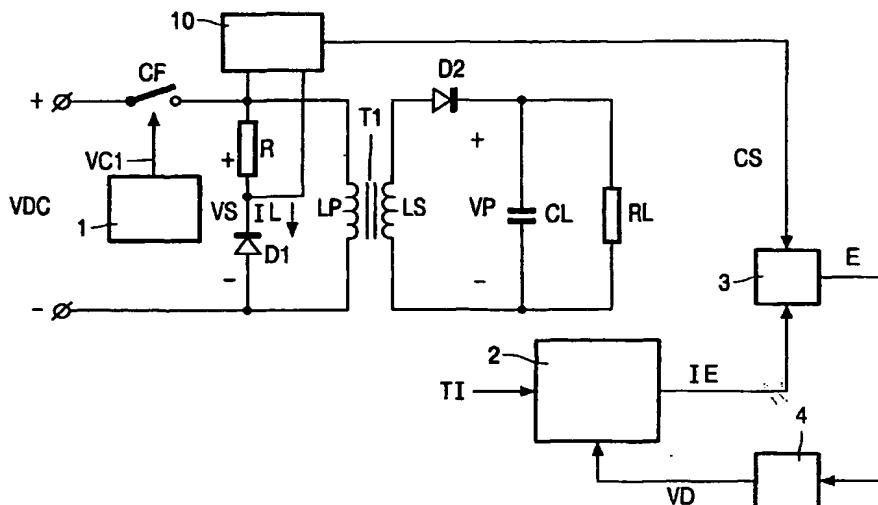
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(54) Title: POWER CONVERTER



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(57) Abstract: A power converter comprises an inductor (LP) and a controllable switch (CF) coupled to the inductor. A switch controller (1) supplies a periodic switching signal (VC1) which has a repetition time and a duty cycle to the controllable switch (CF) to generate a periodical inductor current (IL) through the inductor. A generator (2) generates an emulated signal (IE) based on timing information (TI) which represents the repetition time and the duty cycle to emulate a current signal being representative of the inductor current. A comparator (3) compares the emulated signal (IE) with the current signal (CS) to obtain an error signal (E). A generator controller (4) receives the error signal (E) to supply a control signal (VD) to the generator (2) to adapt a property of the emulated signal (IE) to become substantially equal to a property of the current signal (CS).